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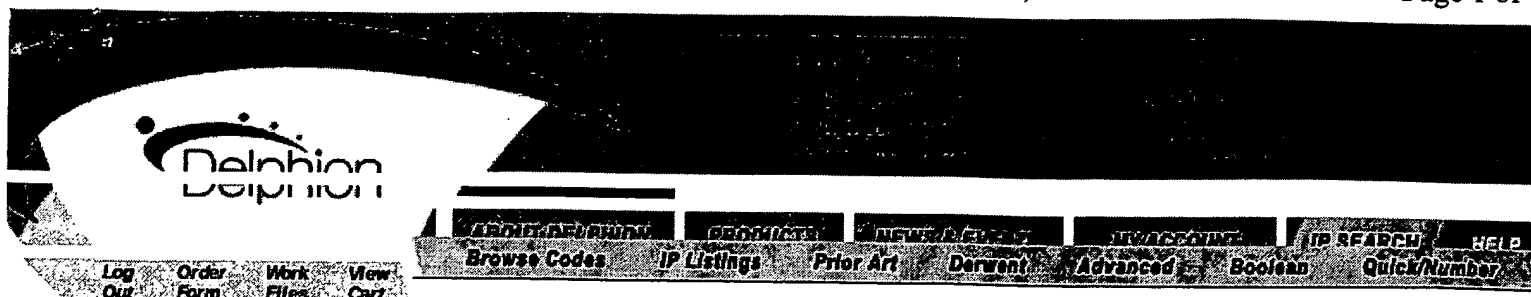
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Title: **JP8306390A2: NONAQUEOUS ELECTROLYTE SECONDARY BATTERY**

Country: **JP** Japan
Kind: **A**

Inventor(s): **IKUYAMA SEIICHI**
KOIKE TAKESHI

Applicant/Assignee: **SONY CORP**
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Issued/Filed Dates: **Nov. 22, 1996 / April 28, 1995**

Application Number: **JP1995000106400**

IPC Class: **H01M 10/40; H01M 4/04; H01M 4/58; H01M 4/64;**

Priority Number(s): April 28, 1995 **JP1995000106400**

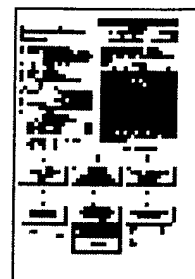
Abstract: **Purpose:** To improve resistance to overdischarge by coating nickel or chrome which has high chemical stability on copper foil at a specified thickness to be used as a negative electrode.
Constitution: On both surfaces of a negative electrode collector 9 having coating of nickel or chrome formed on copper foil in a plating method at a thickness of 1µm or more, synthetic paint of carbon or the like is applied to be a strip of a negative electrode 1. In the meanwhile, a positive electrode 2 is formed by applying mixed paint of LiCoO₂ or the like on both surfaces of a collector 10 of aluminum foil. The negative electrode 1, and the positive electrode 2 are laminated through a separator 3 to be a spiral electrode body. By thus coating the negative electrode 1 with thin film of nickel or chrome, it is passivated to improve chemical stability, thereby capacity deterioration by overdischarge can be restricted.
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(11) Publication number:

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PATENT ABSTRACTS OF JAPAN(21) Application number: **07106400**(51) Intl. Cl.: **H01M 10/40** H01M 4/04 H01M 4/58 H01M 4/64(22) Application date: **28.04.95**

(30) Priority:

(43) Date of application
publication: **22.11.96**(84) Designated contracting
states:(71) Applicant: **SONY CORP**(72) Inventor: **IKUYAMA SEIICHI**
KOIKE TAKESHI

(74) Representative:

**(54) NONAQUEOUS
ELECTROLYTE
SECONDARY BATTERY**

(57) Abstract:

PURPOSE: To improve resistance to overdischarge by coating nickel or chrome which has high chemical stability on copper foil at a specified thickness to be used as a negative electrode.

CONSTITUTION: On both surfaces of a negative electrode collector 9 having coating of nickel or chrome formed on copper foil in a plating method at a thickness of 1 μ m or more, synthetic paint of carbon or the like is applied to be a strip of a negative electrode 1. In the meanwhile, a positive electrode 2 is formed by applying mixed paint of LiCoO₂ or the like on both surfaces of a collector 10 of aluminum foil. The negative electrode 1, and the positive electrode 2 are laminated through a separator 3 to be a spiral electrode body. By thus coating the negative electrode 1 with thin film of nickel or chrome, it is passivated to improve chemical stability, thereby

capacity deterioration by
overdischarge can be restricted.

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